ATTACHMENT 15

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Federal Statutes Federal Regulations ARISTA'S OPPOSITION TO CISCO'S MOTION FOR PARTIAL SUMMARY JUDGMENT Case No. 5:14-cv-05344-BLF (NC)

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I. INTRODUCTION

Cisco's blunderbuss motion asks the Court to decide inherently factual issues that are inappropriate for summary judgment. More a pre-Trial brief than an earnest presentation of issues suitable for judgment, Cisco's 3,000-page submission itself proves the highly factual nature of the questions it raises. The factual record on this motion is intensely disputed, and when all inferences are drawn in Arista's favor no part of the motion may be granted.

Cisco takes a schizophrenic approach to proving its case. It insists that each individual CLI command—short phrases such as "show ip address" and "clear counters"—is an independently protectable expression that Cisco owns and Arista may not use (even while many other switch vendors use hundreds or more of them with Cisco's knowledge and acquiescence). But when put to its proof, Cisco eschews any individualized analysis. By seeking an order that "Cisco owns a valid copyright in Cisco CLI," Cisco would have this Court put its copyright imprimatur on an entire interface that Cisco never independently copyrighted and that it has never defined from 26 different copyrighted works comprising tens of millions of lines of computer code.

What's more, overwhelming evidence proves that Cisco adopted many of the asserted commands and other CLI components from published standards, everyday industry parlance, and interfaces that predated IOS. This Court cannot decide on summary judgment the "mixed question of law and fact"—to use Cisco's counsel's words—to conclude that "the Cisco CLI" is protectable when substantial evidence says it is not. In fact, as to Cisco's claimed "command hierarchies," modes and prompts, Arista is entitled to summary judgment of *no* copyrightable expression. As for infringement—where factual disputes are reserved for the jury—no fact finder can resolve that until the Court decides what is protectable and the degree of protection it deserves.

Similarly, Cisco asks the Court to declare its victory on the highly fact-intensive issue of fair use because its expert said so. But Cisco ignores massive amounts of contrary evidence and law, including (1) the transformative nature of Arista's switches, which Cisco's own employees have hailed as a "new paradigm" of network technology; (2) the purely functional nature of the

asserted CLI elements; (3) the de minimis amount of the registered works even alleged to have been copied; and (4) the fact that numerous other network-device vendors have openly touted their use of an "industry standard" or "Cisco-like" CLI for over a decade, without any protest by Cisco. A jury must decide the question of fair use based on a full presentation of the evidence and its assessment of the credibility of Cisco's witnesses and experts.

For these reasons and more discussed below, Cisco's motion does not approach satisfying the burden for summary judgment as to any issue in this case, and should be denied in its entirety.

II. BACKGROUND FACTS

Cisco's CLI borrowed from prior network operating systems and standard Α. industry terminology.

Similar to other operating systems at the time, such as Digital Equipment Corporation's (DEC's) "TOPS-20" OS that Mr. Lougheed knew from his work at Stanford, the Cisco OS borrowed conventional terminology and command formatting for a rudimentary set of control commands. Black Rpt. ¶¶ 548–82. *Id.* ¶¶ 559–67, 571, 574, 581;

see also Ex. 18 at 259-60. He also copied the same "modes" that Tops-20 used, and was "inspired" to use similar language and structure. Id. ¶ 576–78. Many of the CLI elements that Cisco claims to be original in fact owe their origins to TOPS-20 or other well-known pre-existing operating systems such as UNIX, VAX/VMS, and others. *Id.* ¶¶ 548–82; see also Ex. 1 at 175. This is unsurprising: Why woudn't a start-up like Cisco use terminology and conventions that were familiar to computing engineers? Black Rpt. ¶¶ 119, 197, 684; Seifert Rpt. ¶¶ 56–70.

After all, the innovation that Cisco brought was network routing functionality; the commands

Unless otherwise noted, citations to "Ex." are to the Declaration of Ryan Wong.

See Decl. of John R. Black Jr. ("Black Decl."), Ex. 1 (hereinafter "Black Rpt.").

See Decl. of William M. Seifert ("Seifert Decl."), Ex. 1 (hereinafter "Seifert Rpt.").

used to invoke that functionality were mundane and just a means to an end.

Choosing feature commands was an afterthought to actual software development, occupying "maybe 15 seconds" (Ex. 2 at 76) as compared to the extensive effort to plan, write, and test new features. Starting with Mr. Lougheed, and for hundreds of Cisco engineers after him, the goal in selecting commands was to make thier meaning self-evident. Black Rpt. ¶¶ 583–628 (discussing Cisco testimony and its CLI guidelines). Thus, a primary source of commands was the ever-growing body of published and *de facto* industry standards. *Id.*; *see also id.* at ¶¶ 67–90. The vast majority of the CLI elements that Cisco asserts come directly from standards documents that have long been treated as public domain, and from terminology that network operators used day in and day out. *Id.* at ¶¶ 583–618; 643–670; Black Decl., Exs. 2, 3, 32.

B. Cisco waited over 15 years to first register a copyright in its operating system, and never registered a copyright in the "Cisco CLI."

Cisco has not asserted a copyright registration for the "Cisco CLI." All of Cisco's asserted copyright registrations are for combinations of a version of the operating system source code and/or object code and associated documentation. *See* Dkt. 64 at Exs. 3–28. Each registration acknowledges that the software includes "third-party and preexisting code" that would not be the subject of that registration. *Id.* But none specifies what parts are new and what parts are old or taken from other sources. *Id.*

Although some asserted CLI elements were first used in 1986 Cisco routers, Cisco did not register any operating system with the Copyright Office until Cisco IOS 11.0 in 2002. *Id.*, Ex. 3. Cisco ultimately registered various versions over the years, but often well more than five years after the software was first published or sold. Dkt. 349 at 6. Ultimately, approximately 200 asserted CLI commands were first published (in released code or manuals) more than five years before Cisco filed a registration on any corresponding operating system. *Id.*

C. Cisco joined the industry in promoting convergence around a common CLI command language, which was based on Cisco's commands due to its dominance in the networking market.

As Cisco became the dominant network equipment vendor and penetrated virtually every network it was essential for any network engineer to be fluent in Cisco's command language. To learn Cisco's operating systems (and hence its CLI), many companies and individuals invested

| 1 | heavily in training at their own expense. Ex. 3 at 1:19-23. From at least the late 1990s on, | | |
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| 2 | virtually every network vendor leveraged this embedded customer knowledge of Cisco | | |
| 3 | commands by building software that responded to similar commands. Some went so far as to try | | |
| 4 | to replicate Cisco "bugs" in their CLI operations. Ex. 4 at 154–58. | | |
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| 8 | ; Black Decl., Exs. 5–35. | | |
| 9 | This vast overlap in CLI commands was no secret. Dell published videos highlighting | | |
| 10 | how similar its CLI was to Cisco's. See Ex. 5 at 96–100 & Depo. Ex. 956 (available at | | |
| 11 | https://www.youtube.com/watch?v=Pel1pffyuDk). HP published manuals showcasing the | | |
| 12 | similarities. See, e.g., Ex. 6. These industry leaders, and many others, have openly touted their | | |
| 13 | use of the familiar "industry standard" CLI since long before Arista was founded. Exs. 40, 64. | | |

14 Trade journals too have regularly commented on the wide emulation of Cisco's CLI throughout 15 the industry. Ex. 7.

from objecting to industry-wide usage of similar CLI commands, Cisco embraced it.

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Ex. 9. Even one of Cisco's patents asserted in this case explained that "[m]any companies now strive to support some variation on IOS CLI in their routing systems." Ex. 3. Far

D. Arista designed a completely new Ethernet switch with a radically different operating system and openly adopted an "industry standard CLI."

Arista was founded in 2004 to break the lethargy that had stifled innovation in the Ethernet switch business. Led by Sun Microsystems' co-founder Andy Bechtolsheim, and by former lead software developer at Granite Systems (one of Cisco's early acquisitions) Ken Duda, Arista set out to develop a switch hardware design and operating system (EOS) to meet the needs of the burgeoning data center. As the Internet grew and computing services of all sorts were

handled more and more in "the cloud," the need for higher performance switches grew through the 2000s. Arista anticipated this growth, and when it launched its first product in 2008, it met the new demand with a switch that out-performed anything Cisco (or other vendors) could offer. Ex. 10; Black Rpt. ¶¶ 126–68. Arista initially was embraced by high-end users such as financial traders where Arista's groundbreaking switching speed ("low latency") translated directly into profits. But Arista's success soon spread widely, as it won one prestigious award after another and became the go-to switch for some of the world's most important data center companies such as Microsoft, Google, and Facebook. Exs. 12–14. Arista's switch became "the gem powering the cloud." Ex. 12.

Arista's CLI, like any operating system's, is necessarily public, and Arista has always been open about its use of an "industry standard CLI"—the same phrasing Cisco and countless other vendors used. Cisco knew about Arista and its CLI, noting its "industry standard" nature at least by 2008, after it analyzed its first Arista switch for purposes of competitive intelligence. Ex. 15. Published reviews also noted Arista's standard CLI. For example, a 2010 Network World review of high-speed data switches that hailed Arista's superiority to Cisco (prompting an entire squad of Cisco engineers and marketing executives to scramble to do damage control) noted that most vendors surveyed, including Arista, "speak[] IOS [Cisco's operating system]" to appeal to customers familiar with the Cisco CLI. Exs. 10, 16.

III. CISCO CANNOT PROVE UNDISPUTED FACTS SUPPORTING COPYRIGHTABILITY.

Cisco's request for a blanket declaration of copyrightability in "the Cisco CLI" is facially improper in that Cisco asserts a variety of selected non-literal elements. An element-by-element approach—as the law requires—reveals that Cisco cannot establish copyrightability as a matter of law for *any* element, and for some, the record allows only for a finding of *no* copyrightability. Specifically, as set forth in Arista's Motion for Partial Summary Judgment, Cisco's claim to copyright in its command hierarchies, modes and prompts fails as a matter of law, and the Court should grant summary judgment in favor of Arista as to those elements. Dkt. 349 at 11–17. In addition, for almost 200 CLI command abstractions, Cisco cannot carry its burden of showing originality and creativity to support a finding of copyrightability. *Id.* at 5–11. As to the

originality and creativity preclude summary judgment.

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A. Copyright law does not protect functional methods or systems.

remainder of Cisco's asserted CLI elements, however, substantial questions of fact about their

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Copyright does not protect ideas or any "procedure, process, system, [or] method of operation." 17 U.S.C. § 102(a) ("original work of authorship"); 17 U.S.C. § 102(b); Baker v. Selden, 101 U.S. 99 (1879). "[M]any aspects" of computer programs that are dictated by functional needs and industry expectations are not entitled to copyright protection. Sega Enters. Ltd. v. Accolade, Inc., 977 F.2d 1510, 1524-25 (9th Cir. 1992). Thus, in some cases, "even the exact set of commands used . . . is deemed functional rather than creative for purposes of copyright." Id.; see also Bikram's Yoga Coll. of India v. Evolation Yoga, LLC, 803 F.3d 1032, 1039-40 (9th Cir. 2015) (citing Sega, 977 F.2d at 1526); Feist Publ'ns, Inc. v. Rural Tel. Serv. Co., 499 U.S. 340, 350 (1991) (rule "severely limits the scope of protection"). Copyright does not protect a system that "primarily reflects function, not expression," even if "multiple different methods" might achieve the same end. Bikram, 803 F.3d at 1040-42.

To "defin[e] the scope of plaintiff's copyright," the Ninth Circuit requires a process of "analytic dissection." Brown Bag Software v. Symantec Corp., 960 F.2d 1465, 1475–76 (9th Cir. 1992) (citing *Data East USA*, *Inc. v. Epyx, Inc.*, 862 F.2d 204, 209 (9th Cir. 1988)). Determining the scope of copyright protection "depends on whether, on the particular facts of each case, the component in question qualifies as an expression of an idea, or an idea itself." Johnson Controls, Inc. v. Phoenix Control Systems, Inc., 886 F.2d 1173, 1175–76 (9th Cir. 1989), overruled on other grounds as stated in Perfect 10, Inc. v. Google Inc., 653 F.3d 976 (9th Cir. 2011); see also Apple Computer, Inc. v. Microsoft Corp., 35 F.3d 1435, 1443 (9th Cir. 1994); Durham Indus., Inc. v. Tomy Corp., 630 F.2d 905, 913 (2d Cir. 1980) (no protection for mechanical or utilitarian features).

Courts have regularly denied copyright protection for sets of computer commands and menu functions. See Ashton-Tate Corp. v. Ross, 728 F. Supp. 597, 601–02 (N.D. Cal. 1989); Ashton-Tate Corp. v. Ross, 916 F.2d 516, 521–22 (9th Cir. 1990) (list of commands); Dream Games of Arizona, Inc. v. PC Onsite, 561 F.3d 983, 989 (9th Cir. 2009) (video game menu

options); see also Allen v. Academic Games League of America, Inc., 89 F.3d 614, 617–18 (9th Cir. 1996) ("abstract rules and play ideas" of academic games—however original—could not be copyrighted). In MiTek Holdings, Inc. v. Arce Eng'g Co., Inc., 89 F.3d 1548 (11th Cir. 1996), the Eleventh Circuit held that a computer program's "menu and sub-menu command tree structure" that simply implemented functional steps in a design process was not copyrightable. Id. at 1556–57 & n.19. Likewise, in Mitel, Inc. v. Iqtel, Inc., 124 F.3d 1366 (10th Cir. 1997), the Tenth Circuit found no copyrightable expression in a system of "command codes" that—like the CLI commands here—was used to invoke various functions of telephone systems. Id. at 1373; Eng'g Dynamics, Inc. v. Structural Software, Inc., 26 F.3d 1335, 1347-48 (5th Cir. 1994) (remanding factual questions about originality and industry constraints on input/output formats for highly standardized technical information).

While Cisco relies heavily on *Oracle America, Inc. v. Google, Inc.*, 750 F.3d 1339 (Fed. Cir. 2014) (*Oracle I*), that decision does not, and could not, change the controlling Ninth Circuit law. *Id.* at 1353 (regional circuit copyright law applied). In any event, *Oracle* does not control the question of copyrightability here because that case involved the admitted verbatim copying of 7000 lines of concededly original declaring code in Java API specifications. *Id.* at 1350–51, 1353. In contrast, the CLI components are non-literal abstractions whose originality is hotly contested.

1. Cisco's command "hierarchies" are unprotectable ideas.

The asserted "copyrighted command hierarchies" amount to nothing more than applying the uncopyrightable idea of a tree structure to group and organize commands by their common first words. *See* Cisco Mot. at 3; Ex. 1 at 157:8–159:19 (command hierarchy is an "abstract concept" and unable to identify principles defining hierarchies); Ex. 17 at 53:9–55:8; Black Rpt. ¶¶ 183–90, 529–35, 581 (re other systems featuring groups of commands sharing keywords); *see also* 17 U.S.C. § 102(b); *Apple*, 35 F.3d at 1443; *Signo Trading Int'l Ltd. V. Gordon*, 535 F. Supp. 362, 365–66 (mere "application" of an idea is not copyrightable); Dkt. 349 at 15–16. ⁴ The

Cisco's command hierarchies also fail as copyright protectable expression because they are lawyer creations; there is no single registered work that contains or expresses the asserted hierarchies. They combine CLI command words from several different Cisco operating systems. Black Decl., Ex. 38 (hereinafter "Black Rebuttal Rpt.") ¶¶ 19, 48, 99–102.

Court should grant summary judgment in Arista's favor that hierarchies are not copyrightable.

2. Cisco's command modes and prompts are uncopyrightable methods.

The asserted Cisco command modes and prompts are just labels applied to the idea of grouping certain commands and functions. They are not copyrightable because they are titles or names, and they were not original to Cisco. *See* 37 C.F.R. § 202.1(a); *Shaw v. Lindheim*, 919 F.2d 1353, 1362 (9th Cir. 1990); *Narell v. Freeman*, 872 F.2d 907 (9th Cir. 1989); *see also* Black Rpt. ¶¶ 498–516, 550–51, 553, 559, 578–80, 636; Black Rebuttal Rpt. ¶¶ 70–71; Ex. 62. The symbols "#" and ">" in command prompts would also be unprotectable, even if they were original. *Torah Soft Ltd. v. Drosnin*, 136 F. Supp. 2d 276, 287–88 (S.D.N.Y. 2001); *Matthew Bender & Co. v. W. Pub. Co.*, 158 F.3d 674, 681 (2d Cir. 1998). But those prompts are not original. Ex. 1 at 121:7–15 (">" used by MS-DOS); Ex. 18 at 369:2–20 ("#" used by Stanford), at 386:21–387:7 (">" used by Stanford); Black Rpt. ¶¶ 103, 554, 573, 580–81. Again, the Court should grant summary judgment for Arista—not Cisco.

3. Cisco's commands and responses are also functional, not expressive.

Arista did not move for summary judgment of no copyrightable expression in the CLI command abstractions themselves because that analysis hinges on disputes of fact as to whether they are a system or method of operation, which is best left for the "analytic dissection" process. Substantial evidence shows they are simply a method of operation. For example, Cisco asserts that "[Arista's] EOS was designed to recognize and process" certain command language that IOS accepts, and that the two operating systems "respond to those commands in similar ways." *See* Dkt. 332-1 (Almeroth Rpt.) ¶ 223. In other words, the CLI command words are essentially digital "knobs" turning on or off, or setting, their respective functionality in the operating system software. Ex. 33 at 57:9–13 ("the command is the knob" for a setting):

; id. at 184:7–185:3; ; Black Rpt. ¶ 523. The fact that the CLI "knobs" have descriptive textual labels or names (i.e., the command words that users enter) does not make them expressive: every "knob" must be distinguishable from the others. See Ex. 19 ("The command")

should describe the capability and function that you are enabling..."). Cisco's conversion of a

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control system into digital form does not mean it is any less of a "system." MiTek, 89 F.3d at 1557. This question for the analytic dissection process is not suitable for summary judgment.

- В. Cisco's CLI commands and responses are not copyrightable because they are not original.
 - 1. Cisco's commands and responses derive from prior industry practice and technical constraints, not original artistic expression by Cisco.

"The sine qua non of copyright is originality." Feist, 499 U.S. at 305. "Although the amount of creative input . . . required to meet the originality standard is low, it is not negligible." Satava v. Lowry, 323 F.3d 805, 810 (9th Cir. 2003). "[A] combination of unprotectable elements is eligible for copyright protection only if those elements are numerous enough and their selection and arrangement original enough that their combination constitutes an original work of authorship." Id. at 811. In applying these rules, "[courts] must be careful... not to cheat the public domain" by defining copyrightability too broadly. *Id.* at 813.

Cisco has made no attempt to prove individually that each asserted command and other non-literal CLI elements is original, much less prove the facts needed for the order Cisco seeks that the "Cisco CLI" (which Cisco has never defined, identified, or registered as copyrighted) is copyrightable. See Dkt. at 334 (Cisco's Proposed Order). On this basis alone the motion should be denied.5

The evidence raises scores of genuine questions about originality. Cisco took common command keywords⁶ and a familiar command syntax from pre-Cisco systems that Cisco employees had used to develop Cisco's commands. Black Rebuttal Rpt. ¶¶ 65–69 (pre-Cisco

As to the evidence Cisco has submitted, there are substantial questions about its credibility that a jury should resolve. For example, Cisco's expert claims to have verified that the Arista EOS CLI accepts all 508 command abstractions that Cisco asserts, but he clearly did not do so; most of the accused 508 command abstractions are not syntactically valid EOS CLI commands, and the log files provided with Cisco's expert report show only 22 CLI commands tested with an Arista device. Black Rebuttal Rpt. ¶¶ 96–98, 141, 173–78; Black Decl., Ex. 65.

Cisco concedes that many (if not all) single-word commands like "Copy" and "Delete" are not copyrightable, even though alternative words could conceivably serve the same functions. Dkt. 64 ¶ 7; Ex. 23 at 2;

Cisco suggests that a "creative" aspect of Cisco's CLI was the choice to use a text-based command line instead of a graphical or menu-based interface. See Cisco Mot. at 2. Not only is there no copyright protection for the "idea" of using a command line interface, but there were no alternatives in the early 1980s when the Cisco CLI was first created.

| 1 | use of hierarchical and structured multi-word commands); see also Black Rpt ¶¶ 105-07, 498- |
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| 2 | 516, 559–67, 545, 547–82, 632–35; Ex. 1 at 123–24 (adopting TOPS conventions), 151:7–23 |
| 3 | (multi-word commands in UNIX and TOPS-20 systems Lougheed used before developing Cisco |
| 4 | CLI); Ex. 2 at 32:3-8 ("every operating system" had used 'show' commands); Ex. 4 at 145-446 |
| 5 | (Cisco "copied some of the functionality" for its CLI from TOPS-20), 153-54 (look and feel of |
| 6 | Cisco CLI based on TOPS-20 as a model); Ex. 21. |
| 7 | In addition, "the vast majority of terms used in the accused CLI commands come directly |
| 8 | from industry standards, and well-known descriptive industry parlance." Black Rpt. ¶¶ 583, 584- |
| 9 | 618; Black Decl., Exs. 2, 3, 32, 61; Black Rebuttal Rpt. ¶ 75. For example, the asserted |
| 10 | command words "ptp priority 1" (actually a command fragment) is a combination of "ptp," an |
| 11 | industry standard acronym for an industry standard protocol, and "priority 1," an industry |

standard parameter defined in the protocol for "ptp." Black Rpt. ¶ 589; Ex. 20 at 137–41, 146–48,

153–56. Likewise, the command "show snmp user" simply combines the unoriginal "show"

command with "snmp user"—a term defined by the SNMP protocol over which Cisco has no

exclusive rights. Black Rpt. ¶¶ 559–82, 598; Ex. 21; Ex. 22 at 146:25–147:11; 162:22–163:19.

Hundreds of other commands are similarly made up entirely of industry standard terms. See

17 Black Decl., Exs. 2, 3, 32.

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; Ex. 63. In essence, the Cisco CLI

"authors" of commands were simply naming each command by "what it did," borrowing standard terminology that someone else had coined. Ex. 2 at 75:12-76:8, 100-01; Ex. 24 at 194 (command words should be "self-explanatory," using "terminology . . . from the networking world"); Black Rebuttal Rpt. ¶ 64–73; Black Decl., Exs. 32, 61.

Cisco's CLI commands were no more creative in later years, when it was constrained to use the same vocabulary, syntax, and other conventions it had already used. The rule in CLI design at Cisco was to follow the "principle of least surprise" to match new commands to

customer expectations. Ex. 4 at 126–28; see also Black Rebuttal Rpt. ¶¶ 72–78; Black Rpt ¶¶

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see also Black Rebuttal Rpt. ¶¶ 79–83.

602-13;

Ex. 25 at 4 ("CLI is de-facto industry

standard, need to continually foster its syntactic and behavioral consistency"; emphasizing need for "consistency" and "rigid CLI structure"); Ex. 26 at 439; Ex. 27 at 646–647 ("When naming a command, pick names that would be familiar to people in the industry," such as "accepted industry acronym" or an industry's "universal parlance.").

Those few command keywords not derived directly from industry standard terminology still fail to qualify as protectable expression. "Words and short phrases such as names, titles and slogans" are not copyrightable. 37 C.F.R. § 202.1(a); *Narell*, 872 F.2d at 907. Even in their full length, the asserted CLI commands are no more than a few words long since Cisco's CLI command guidance was to "find a short phrase that is descriptive." Ex. 28. Once the Court filters out the public domain vocabulary that any equipment vendor must be free to use, there typically are no more than one or two words remaining, if any. *See* Black Decl., Exs. 32, 61. A smattering of discrete command words that Cisco may have coined, combined with standard, public domain terminology, does not entitle it to copyright protection for any CLI element as a matter of law, much less "the Cisco CLI."

The Court should deny Cisco summary judgment of copyrightability and instead consider the extensive evidence of unoriginality during the analytic dissection phase.

2. There is no factual dispute preventing summary judgment in Arista's favor as to roughly 200 late-registered CLI command abstractions.

As discussed in Arista's Motion for Partial Summary Judgment, Dkt. 349 at 5, Cisco's copyright registrations post-dated the first publication of 198 asserted CLI commands by more than five years. *See* Dkt. 329-15. Because Cisco has produced no evidence of originality of those commands, Arista is entitled to summary judgment of non-infringement of each of the 198 lateregistered commands.

Cisco touts the efforts that purportedly went into CLI selection, but effort is no basis for proving copyrightability. *Feist*, 499 U.S. at 349. In any event, there is substantial evidence to the contrary. The time spent to select the commands—as opposed to creating the source code to implement them—was insubstantial. Ex. 18 at 317:20–319:6; Ex. 2 at 76:4–8; Ex. 29 at 187:25–197:23; Black Rpt. ¶ 629–30.

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In its motion, without providing any specifics, Cisco claims that 20 of its 26 copyright registrations were "filed within five years of the works' initial publication" and that these "cover the vast majority of Cisco CLI at issue." Cisco Mot. at 5:22–24. Cisco appears to rely on registrations of a derivative version of its software to reset the five-year clock for every command in that version, even commands that were first published in a software version released many years earlier. But the Ninth Circuit has squarely "reject[ed] the argument that registration of [a] derivative work creates a presumption of validity of the copyright of the underlying work." Cooling Sys. & Flexibles, Inc. v. Stuart Radiator, Inc., 777 F.2d 485, 490 (9th Cir. 1985), overruled on other grounds as stated in Jackson v. Axton, 25 F.3d 884 (9th Cir. 1994). "The copyright in a compilation or derivative work extends only to the material contributed by the author of such work, as distinguished from the preexisting material employed in the work." 17 U.S.C. § 103(b) (emphasis added).

Cisco also argues that this Court should nevertheless exercise its discretion to grant the untimely registrations a presumption of validity. But Cisco cites cases where courts did so because there was no serious dispute that the works were not independently created. See Cisco Mot. at 6:5–6. Here, in contrast, significant evidence calls into question Cisco's claims of originality. See Part III.B1, supra; Dkt. 329-14–329-16. Given the "serious questions" about originality here, the Court should not, in its discretion, stretch the five-year presumption to Cisco's late registrations. See, e.g., Walker & Zanger, Inc. v. Paragon Indus., Inc., 549 F. Supp. 2d 1168, 1183 (N.D. Cal. 2007).

3. At least 397 asserted "commands" are fragments that Cisco's CLI does not actually use in the form asserted here.

An additional reason for rejecting Cisco's request for a finding of copyrightability as to the "Cisco CLI" is that at least 397 of the 508 asserted CLI "commands" are not commands at all, but rather only "distillations, shortened forms, (in some cases) prefixes, and not issuable under any configuration of any Cisco product." Black Rebuttal Rpt. ¶¶ 35–40, 95, 176–77; Black Decl., Ex. 65 at 1. For example, the first asserted command, "aaa accounting," is not a valid CLI input. See Ex. 30 at 98:14–102:2; Black Decl., Ex. 65 at 1. In addition, the words that make up many of the asserted command fragments, once arguments (i.e., parameters) are taken into account, are

ordered differently than Arista's, further calling into question which aspects of command fragments Cisco could claim are protectable. *See, e.g.*, Black Rebuttal Rpt. ¶ 37. Cisco's "commands" are artificial, lawyer-created exhibits. Genuine disputes exist as to whether such discrete word selections deserve protection.

4. Cisco's untimely "helpdesc" allegations should be stricken—but in any event the asserted texts are also uncopyrightable.

Cisco asserts copying of over 400 "helpdesc" command descriptions—textual CLI output describing what commands do—even though Cisco failed to allege those descriptions as a basis of its claim until the *last day* of discovery. With remarkable chutzpah, Cisco claims that "Arista has waived any argument as to lack of originality" of these because Arista could not respond to Cisco's untimely theory. In fact, Arista immediately moved to strike the untimely contentions, and the motion will be heard by Judge Cousins on July 27. *See* Dkt. 304-3; Dkt. 363.

Regardless, the helpdesc texts are not entitled to any copyright protection because they are mundane and generic phrases describing what commands do, such as "Copy from one file to another," "Delete a file," "Display detailed information," and "time in minutes." *See* Dkt. 332-1 (Almeroth Exhibit Copying-6); *See* Black Rebuttal Rpt. ¶¶ 143–45; Black Decl. ¶ 73.

IV. CISCO HAS NOT SHOWN UNDISPUTED COPYING OF PROTECTABLE EXPRESSION.

A. Copyright infringement is a question of fact for the jury, and cannot be decided by any fact finder until unprotectable elements are filtered out and the scope of protection is determined.

Cisco's motion seeking a sweeping order that Arista "infringed Cisco's copyright by copying Cisco CLI" (Dkt. 334 (Cisco's Proposed Order)) is an invitation to commit clear error, ignoring critical disputed facts and the Ninth Circuit's required process for resolving them. See, e.g., Data E. USA, Inc. v. Epyx, Inc., 862 F.2d 204, 209 (9th Cir. 1988) (holding finding of substantial similarity based on unprotectable expression was clear error); see also Harper House, Inc. v. Thomas Nelson, Inc., 889 F.2d 197, 207 (9th Cir. 1989) (reversing verdict for failure to "adequately explain to the jury which material was, in fact, protectable").

⁹ Cisco's motion *does not cite a single case* granting summary judgment of "copying." The only summary judgment case Cisco cites granted summary judgment to the *defendant* after engaging in analytic dissection. *Benay v. Warner Bros. Entm't*, 607 F.3d 620, 625 (9th Cir. 2010).

The Ninth Circuit requires "analytic dissection" before comparing works and assessing infringement "[b]ecause only those elements of a work that are protectable . . . can be compared when it comes to the ultimate question of illicit copying." *Apple*, 35 F.3d at 1443–43. Cisco has conceded that analytic dissection involves mixed questions of law and fact for the Court, rendering it particularly unsuitable to summary judgment in favor of Cisco. *See* Dkt. 321 at 32:8–15; *see also Harper House*, 889 F.2d at 201.

After the plaintiff identifies alleged similarities between the works, the Court must dissect the work to "determine whether any of the allegedly similar features are protected by copyright." *Apple*, 35 F.3d at 1443. After "dissect[ing] the alleged similarities and consider[ing] the range of possible expression," the court "*must* define the scope of the plaintiff's copyright." *Id.* Where the range of possible expression is narrow (as in this case), copyright protection is "thin" and infringement requires "virtual identity" between the disputed works as a whole. *Apple*, 35 F.3d at 1442–43; *see also Mattel, Inc. v. MGA Entm't, Inc.*, 616 F.3d 904 (9th Cir. 2010); 4-13 Nimmer on Copyright § 13.03.

Analytic dissection is particularly essential here. First, Cisco has claimed both (1) that each CLI command, mode, prompt, response, and hierarchy is an independently protectable expression, and (2) that Arista infringed an undefined, monolithic "Cisco CLI." *Compare* Dkt. 82 at 21:14–17 ("And I want to be perfectly clear with the Court . . . that Cisco does believe it's entitled to copyright protection on each of these multi-word commands.") *with* Dkt. 334 (Cisco's Proposed Order). Second, with only a few exceptions, Cisco asserts that Arista copied non-literal elements of computer code—abstract elements that do not appear in source code directly. *See* Dkt. 312 at 1:10–18, 2:7–3:1. Assessing whether such elements were copied is a complex process that must await analytic dissection. *See* 4 Nimmer on Copyright § 13.03 (assessing similarities of computer programs "often exceedingly difficult" for lay judges and juries, especially "when the allegations of infringement go beyond mere literal copying of the program code"). Indeed, this Court recognized at the June case management conference that it is still unclear "what Cisco is presenting as protectable." Dkt. 321 (6/16/16 CMC Hrg. Tr.) at 37:9–20.

Cisco tries to short-circuit analytic dissection based on what it calls "direct evidence" of

copying. But no authority limits the need for analytic dissection to circumstantial copying cases, nor would such a rule make sense because "others may freely copy a work's ideas (and other unprotectable elements)." *See, e.g., Mattel*, 616 F.3d at 913-14. Thus, even direct evidence of "copying" of unprotectable elements is legally irrelevant. Because Cisco has not even attempted to comply with the analytic dissection requirement, the Court should deny this part of Cisco's motion.

B. Material disputes of fact bar summary judgment for Cisco as to copying of any protected expression.

Cisco's "infringement" argument also fails for other reasons.

First, Cisco ignores the Ninth Circuit rule that infringement requires a comparison of the registered work to the accused work as a whole (after unprotectable elements are filtered out), to determine whether a reasonable observer "would consider the copyrighted and challenged works substantially similar (or virtually identical)." Mattel, 616 F.3d at 914 & n.9 (emphasis added); VMG Salsoul, LLC v. Ciccone, __ F.3d __, 2016 WL 3090780, *3 (9th Cir. June 2, 2016) (plaintiff must show more than de minimis copying). Cisco's "comparison" is between lawyer-created exhibits of cherry-picked words. But the registered works are many orders of magnitude larger, comprising tens of millions of lines of code—enough to fill hundreds of thousands of pages of printed text. And Cisco does not even address the other aspects of its works or the fundamental differences between Cisco's and Arista's operating systems. See infra Part V.D

Decl. ¶ 71. Likewise, Cisco compares minimal snippets of thirty-seven command responses, ignoring the differences among those thirty-seven responses, not to mention the countless other Cisco screen displays that are not even accused of being similar. *See* Dkt. 332-1 (Almeroth Exhibit Copying-3). Finally, the accused portions of manuals are small excerpts of otherwise dissimilar manuals, which Cisco has made no attempt to show were essential to or a significant proportion of its overall documentation. And many of the accused excerpts are too dissimilar to support any finding of infringing similarity. ¹⁰ *See* Dkt. 332-1 (Almeroth Exhibit Copying-1).

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Although Arista has conceded that an Arista employee copied certain portions of Cisco's

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Second, Cisco ignores the undisputed fact that Arista incorporated CLI elements into EOS from NextHop, another software vendor whose product Arista purchased. Ex. 30 at 117:11–118:22, 144:4–150:15. NextHop code used at least 123 of the same command fragments asserted by Cisco here, as well as all four modes and prompts. Black Rpt. ¶¶ 396–404; Black Decl., Ex. 24. Arista's independent sourcing of many CLI command elements is reason alone to deny this part of Cisco's motion.

Third, Cisco has ignored that many accused Arista commands take arguments or parameters in a different order than Cisco's, resulting in a different word sequence and command. And Cisco ignores that for at least 397 asserted command fragments, the *functional* Cisco command (as opposed to the lawyer creation) is in fact different than Arista's. *See* Part III.B.3, *supra*; *see*, *e.g.*, Black Rebuttal Rpt. ¶ 37. Thus, even substantial similarity of protected expression is in dispute, let alone "virtual identity."

Finally, Cisco's evidence of similarity between Cisco's and Arista's CLI elements is a half-hearted effort that does not carry its burden as plaintiff. Excluding inadmissible attorney-generated lists of words, the entirety of Cisco's evidence of similarity is Exhibit 7 to Dr. Almeroth's report (and Almeroth's disputed opinions), which is "logs" purporting to show that just a small fraction of the 500 accused command abstractions and other accused CLI elements are supported in some form in Arista's software. ¹¹ See Dkt. 332-1 (Almeroth Exhibit Copying-7); Black Rebuttal Rpt. ¶¶ 173–78.

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27 28 product documentation, unauthorized, that does not make his copying actionable. Analytic dissection and assessments of substantiality are still essential.

Cisco's evidence of similarity (or identicality) of other elements is also incomplete, at best. Cisco's so-called "hierarchies" are artificial constructs for this litigation that strategically omit differences for no principled reason (*see* Part III.A.1 *supra*; Black Rebuttal Rpt. ¶¶ 99–102). Cisco also fails to provide a principled comparison of modes and prompts. Black Rebuttal Rpt. ¶¶ 96–98. Arista has a far more complex system of modes, and the actual prompts displayed when using an Arista switch are not what Cisco asserts. *Id.* And there is no evidence that Arista copied "hierarchies" or "modes" from Cisco as opposed to from countless other systems, even ones pre-dating Cisco, that used similar methods of organization. And while Cisco's belated "helpdesc" theories should be stricken, Cisco also fails to show why summary judgment of similarity is appropriate. *See*, *e.g.*, Dkt. 332-1 (Almeroth Exhibit-Copying 6) at 4 (asserting that Arista's description "Enter the size of the buffer" infringes Cisco's "Maximum size of the received buffer").

V. CISCO IS NOT ENTITLED TO SUMMARY JUDGMENT ON FAIR USE

The fair use defense is "is a mixed question of law and fact" that "requires a case-by-case determination whether a particular use is fair." Harper & Row Publishers, Inc. v. Nation Enters., 471 U.S. 539, 549, 560 (1985). Four "nonexclusive factors" are considered: (1) "the purpose and character of the use, including whether such use is of a commercial nature or is for nonprofit educational purposes;" (2) "the nature of the copyrighted work;" (3) "the amount and substantiality of the portion used in relation to the copyrighted work as a whole;" and (4) "the effect of the use upon the potential market for or value of the copyrighted work." *Id.* at 588; 17 U.S.C. § 107. No single factor is dispositive; all factors must be carefully weighed. Campbell v. Acuff-Rose Music, Inc., 510 U.S. 569, 577–78 (1994). The jury can also consider other indicia. For example, "fair use is appropriate where a 'reasonable copyright owner' would have consented to the use, i.e., where the 'custom or public policy' at the time would have defined the use as reasonable." Wall Data Inc. v. Los Angeles Cnty. Sheriff's Dept., 447 F.3d 769, 778 (9th Cir. 2006)). The fair use analysis can be taken away from the jury only "[w]here there are no material facts at issue and the parties dispute only the ultimate conclusions to be drawn from those facts." Oracle I, 750 F.3d at 1373 (remanding for trial on fair use). Here, there is extensive disputed evidence.

A. Cisco's fair use argument hinges on the unresolved mixed factual/legal question of what if any portion of Cisco's works merit copyright protection.

To evaluate fair use at all, the fact finder must understand the extent of copying of protectable expression. Cisco's blanket request for summary judgment of "no fair use" assumes that *all* of the allegedly copied material is protected expression—but the evidence proves the opposite. The Court should deny Cisco's motion as to fair use on that basis alone because the gating question of whether, and to what extent, there has been any copying of protectable expression—and if so, what protectable expression has been used—remains hotly contested.

B. Arista has offered ample evidence that Arista's alleged use of the asserted works is transformative.

The first fair-use factor focuses on "the purpose and character of the use" and requires weighing "whether and to what extent the new work is transformative" and "serves a commercial

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purpose." *Oracle I*, 750 F.3d at 1374 (citations omitted). Commercial use does *not* preclude fair use. *Hustler Magazine Inc. v. Moral Majority Inc.*, 796 F.2d 1148, 1152 (9th Cir. 1986). To the contrary, in *Oracle v. Google*, the Federal Circuit remanded fair use to the jury despite largely crediting Oracle's assertion that "Google knowingly . . . copied a creative work to further its own commercial purposes, did so verbatim, and did so to the detriment of Oracle's market position." *Oracle*, 750 F.3d at 1376. On remand, the jury *found fair use* despite evidence that Google's infringement generated over \$40 billion in revenue. *See Oracle America, Inc. v. Google, Inc.*, No. 10-cv-03561-WHA, 2016 WL 3181206, at *8, n.7 (N.D. Cal. June 8, 2016) (herein *Oracle II*) (denying Oracle's Rule 50 motion following a fair use verdict). Even assuming Arista's use of the disputed works was commercial and generated millions of dollars in revenue, a reasonable jury could easily find fair use by Arista. *Id*.

The parties' disagreement over transformative use also bars summary judgment on fair use. *Campbell*, 510 U.S. at 579 ("[T]he more transformative the new work, the less will be the significance of other factors, like commercialism[.]"). Dr. Black and Arista's own engineers will show the jury that Arista's use of the accused CLI features was highly transformative because it added "something new [to the asserted works], with a further purpose or different character, altering [them] with new expression, meaning or message." *Id.* Arista's EOS is "fundamentally different" from Cisco IOS in both architecture and operation. Black Rpt. ¶¶ 128–68. Written in a different language than Cisco's operating systems, EOS's innovations include: a largely unaltered Linux kernel, a publish/subscribe model of controlling the state of different operating system agents, a modular agent architecture, and its open programmability and extensibility. *Id.* Arista has also pioneered specific feature functionality such as LANZ (Latency Analyzer), ZTP (Zero Touch Provisioning), VM Tracer, and eAPI. *Id.* ¹²

Arista's EOS is designed for very different hardware from Cisco's works. Arista's switches far outstrip Cisco's for port density, low power consumption, and low latency, forcing Cisco to attempt to innovate to catch up. Black Rpt. ¶¶ 673–80. These innovations (not the

Because of these differences, some CLI command elements perform *totally different* functions in Arista's EOS than in Cisco IOS, or similar functions in different ways. Black Rpt. ¶¶ 163–67.

standard CLI) are why customers choose Arista over the competition. *See, e.g.*, Decl. of Cate Elsten ("Elsten Decl."), Ex. 1 at 23–24. Even veteran Cisco engineers describe Arista EOS as "based on a new paradigm." Ex. 29 at 109–15.

For at least these reasons, the Court "cannot say that there are no material facts in dispute on the question of whether [Arista's] use is 'transformative.'" *Oracle I*, 750 F.3d at 1376.

C. Overwhelming evidence demonstrates that the allegedly copied aspects of the asserted copyrighted works are primarily functional.

The second fair-use factor "turns on whether the work is informational or creative."

Oracle I, 750 F.3d at 1375 (citations omitted); Harper & Row, 471 U.S. at 563 ("The law generally recognizes a greater need to disseminate factual works than works of fiction or fantasy."). "[I]f a work is largely functional, it receives only weak protection." Sega Enters., Ltd. v. Accolade, Inc., 977 F.2d 1510, 1527 (9th Cir. 1992) (citation omitted). This factor can support fair use "[w]here purely functional elements exist in the work and it is necessary to copy the expressive elements in order to perform those functions." Oracle I, 750 F.3d at 1375 (citing Sega, 977 F.2d at 1526). see also Oracle II, 2016 WL 3181206, at *11 (upholding fair use verdict because the "jury could reasonably have given weight to the fact that cross-system confusion would have resulted" had Google not used the accused work, and that "a common set of command-type statements," like "a common QWERTY keyboard," advances the "useful arts".).

Here, the asserted CLI elements of Cisco's works are entirely functional and designed for the purpose of avoiding confusion and interoperability. Cisco and its expert argue that the Cisco CLI is creative because random words "such as 'steve' or 'book' or 'phone' *could* be used just as well" in a CLI command as descriptive and technical terms. *See* Dkt. 332-1 (Almeroth Rpt.) ¶ 111 (emphasis added).

But in practice, Cisco's works *do not* actually use absurd or fanciful names for its commands.

Exs. 31–32; Black Rpt. ¶¶ 602–13. Networking devices play a critical role in securely and reliably delivering data, and therefore Cisco (and other vendors) would risk network failure by

using arbitrary, fanciful terminology. Black Rpt. ¶¶ 643–67 (explaining the various functional constraints and user expectations for the asserted CLI elements); Black Rebuttal Rpt. ¶¶ 57–63 (explaining the core functional purposes underlying the asserted CLI elements). Former Cisco engineer Anthony Li said it best: "the use of industry-standard terminology was encouraged largely by the engineering community of which much of Cisco's development was driven by simply because it minimized confusion." Ex. 4 at 129–30. Arista was guided by the same principles. *See, e.g.*, Exs. 30 at 211–12 (Arista used CLI commands "that are common in our industry and well-understood by our customers"), 34 at 39 (Arista supported an "industry standard CLI" with features "widely known and implemented by several vendors using well-known commands").

Cisco's own documents and employees therefore confirm what Arista will demonstrate to the jury: the asserted works are factual and functional in nature, which strongly supports fair use. Hustler, 796 F.2d at 1153–54; Oracle II, 2016 WL 3181206, at *10.

D. The allegedly copied portions of Cisco's works are miniscule in relation to the copyrighted work as a whole.

The third fair-use factor examines "the amount and substantiality of the portion used in relation to the copyrighted work as a whole." 17 U.S.C. § 107(3). "If the secondary user only copies as much as is necessary for his or her intended use, then this factor will not weigh against him or her." *Kelly v. Arriba Soft Corp.*, 336 F.3d 811, 820–21 (9th Cir. 2002).

The scope of Cisco's asserted works is far more expansive than the accused CLI features.

And by Cisco's own count, IOS contains at least 16,000 documented CLI commands (although a more "apples to apples" count compared with the allegation that Arista copied 508 commands is over 450,000 distinct Cisco IOS CLI commands). *See id.* ¶ 692. The total number of supported command modes and prompts, and command responses, in Cisco IOS also far outnumber the four accused command modes and prompts, and the thirty-six command responses

In 1999, Mr. Li, a purported "author" of CLI commands asserted in this case, founded Procket Networks, which copied Cisco's CLI down to its bugs, based on the understanding that doing so was perfectly legal and appropriate. *See* Ex. 4 at 154–58, 161–62. Cisco never protested, but instead purchased Procket in 2004. *Id.* at 63–64, 167.

in this litigation. *See* Ex. 35 (Cisco user manual showing over 70 non-asserted modes and prompts in Cisco IOS); Black Decl. ¶ 71 (there are over 79,000 command responses in Cisco IOS).

In fact, the 508 asserted CLI command abstractions comprise less than four percent (based on Cisco's conservative count of 16,000 IOS commands) of the CLI commands supported by Cisco IOS, and there is no credible evidence whatsoever that any Cisco source code was copied by Arista.

Ex. 36 at 93–94 ("I will absolutely say [Arista] did not copy source code."). Moreover, the *de minimis* overlap of

disputed CLI commands compared to the total CLI commands in the asserted works is far below

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Finally, the widespread, unlicensed use of the same CLI "expressions" that Cisco accuses in this lawsuit strongly undercuts Cisco's assertion that the CLI is the "heart and soul" of Cisco IOS. The networking industry has used the vast majority of asserted CLI elements for a decade or more without objection by Cisco—including all of the accused command modes and prompts, and over 450 of the accused CLI command abstractions—and they are part of an accepted *de facto* industry standard CLI. *See* Black Rpt. ¶ 67–90 (*de facto* industry standards), 91–119 (common pre-Cisco features of CLIs), 169–437 (analyzing over *twenty* vendors, including Cisco's major competitors, who have openly used hundreds of the asserted CLI elements since the 1990s). Because Arista only used what was reasonable and necessary to support and maintain interoperability with the same *de facto* industry standard CLI that Cisco's competitors have openly supported for decades, this factor weighs strongly in favor of fair use.

E. Arista's use of the asserted portions of the copyrighted works has had little effect on the potential market.

The fourth fair-use factor looks at "the effect of the use upon the potential market for or value of the copyrighted work." *Harper & Row*, 471 U.S. at 566. This includes the infringer's

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own impact, as well as the potential impact of "unrestricted and widespread conduct" of the same kind. Campbell, 510 U.S. at 590 (citations omitted).

Here, the fact that the asserted CLI elements are part of a widely supported de facto industry standard CLI substantially undercuts any argument that Arista's use of the accused CLI features has impacted the market for Cisco IOS. Indeed, when this lawsuit was filed, Cisco stated that "HP, Brocade, Alcatel-Lucent, Juniper Networks and Extreme" were examples of "formidable competitors [who] have innovated on their own." See Ex. 23. Those five competitors, however, support the same four industry-standard command modes and four command prompts accused here, see Black Decl., Ex. 4, and collectively use over 350 of the accused CLI command abstractions, see id, Exs. 8, 41.

Juniper's corporate witness confirmed that Juniper's JUNOSe operating system openly supported "industry typical, industry common commands" since at least the early 2000s. See Ex. 38 at 25–26, 29–30, 32; *id.* at 33–34 ("there's this industry standard way to express those commands"). Even in 2003, Juniper's JUNOSe operating system supported well over 300 CLI commands that overlapped with Cisco IOS. See Black Rpt. ¶ 436. Juniper's corporate witness further confirmed that "[c]ommand modes and the sets of commands in them ... were as much a part of the command line experience as the—as the specific commands. So in that sense, it was, I would say as industry standard as the rest of it." Ex. 38 at 62. It is unsurprising then that Juniper's user manuals tout that its JUNOSe CLI adheres to the "industry de facto standard." See Ex. 39 at 2-1; Ex. 40 at 27.

Similar evidence from other competitors supports the standard nature of CLI commands:

- Dell's CLI was designed specifically to support the "industry standard CLI," and its customers demanded that Dell's CLI commands, modes, and prompts follow the de facto industry standard so that they will be compatible with scripts written for other industry-standard CLIs. See Ex. 5 at 37–41, 46–63, 105. Dell supports the same four accused command modes and prompts at issue here, over 250 of the disputed CLI command abstractions, and well over 1000 different CLI commands that overlap with Cisco IOS, and it has been openly using an industry-standard CLI since at least 2003. See Elsten Decl., Ex. 1 at 6 (confirming competitors to Cisco); Black Rpt. ¶¶ 256–300, 436.
- HP uses a "CLI that is [an] accepted industry standard so that we minimize the amount of time customers have to spend learning ... our CLI." Ex. 41 at 95–97. "Every

vendor implements the CLI to be consistent with the standard" and "the bulk of it will be similar to whatever the standard is." *Id*.

• Brocade openly markets their products as supporting "an industry-standard hierarchical shell familiar to … networking administrators." *See* Ex. 42 at 15. Brocade supports the same four accused modes and prompts that Cisco accuses in this lawsuit, and over 240 of the disputed CLI command abstractions. Black Rpt. ¶¶ 243–55.

The overwhelming evidence of broad overlapping usage of the identical words and concepts Cisco now claims copyright in (*see generally* Black Decl., Ex. 41) (Rebuttal Amended Appx. G) substantially undermines any argument by Cisco that Arista's use of standard CLI features caused market harm to Cisco. Seifert Decl., Ex. 1 ¶ 86–113; *see Oracle II*, 2016 WL 3181206, at *10 (the availability of "free and open source" java in the market supported a finding of minimal market harm for fair use). Plainly customers look to non-CLI factors and features when making purchasing decisions. Elsten Decl., Ex. 1 at 20–28 (customers care about latency, programmability, port density, reliability, responsiveness, and customer support); *id.*, Ex. 2 at 74–92.

F. A reasonable copyright holder of the asserted works would consider Arista's use to be fair use, as proven by Cisco's own conduct for many years.

The above evidence also shows that a reasonable copyright holder of the asserted works would consider Arista's use of the asserted portions to be fair use. *See Wall Data*, 447 F.3d at 778. Cisco has known since the late 1990s that its competitors used Cisco-like CLIs and "had commands similar to Cisco's." *See, e.g.*, Ex. 33 at 150. By the early 2000s, Cisco knew that Procket Networks, Dell, Juniper, and Adtran supported what by then had become a *de facto* industry standard CLI. *See, e.g.*, Ex. 4 at 158–163, 228; Ex. 61. And Cisco's own documents show that they knew that Arista EOS supported an industry-standard CLI since at least 2008. Cisco even referred to its own CLI, in its own documents, as an "industry standard" CLI.

Cisco's own documents confirm its awareness that competitors used an "industry standard" CLI. *See*, *e.g.*, Ex. 43 at 6 (Brocade); Ex. 44 at 7 (Dell); Ex. 45 at 16 (Redback); Ex. 46 at 21 (Nexthop); Ex. 47 at 4 (HP).

¹⁵ Cisco was aware of Arista's switches, and had them for testing as early as 2008, but did not object to Arista's use of CLI commands for six years. *See* Ex. 48 at 101–02, 104–07; Exs. 49–50; Ex. 51 at 30–31; Ex. 52 at 100:18–107:25.

See e.g., Exs. 7; 8 ("competitors can copy our stuff after the fact, and there may emerge [a] consensus on basics, and that's all good — it shows our leadership and then we can continue to

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